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Business Systems and Project Management Acquisitions, Business Processes, Property

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Data Servers Processing and Handling Algorithms, Data Management, Routers, Servers, Storage



Materials and Processes Parts, Manufacturing, Production

Processes, Composites



System Testing

Acoustics, Shock, Vibration, Thermal Vacuum, Leak and Pressure Testing, Test Criteria, Test Management and Planning, Aerodynamic Testing



Propulsion

Propellants, Cryogenics, Engine and Motor Performance Analysis



Electronics and **Electrical Power**

Solar Arrays, Batteries, Cabling, Grounding, Converters, Electrical Analysis



Operations

Ground Software, Telemetry, Command and Control, Global Positioning Systems, Extra-Vehicular Activity, Radio, Communications



Structures and Mechanisms Deployables, Structural Loading **Analysis and Design**



Environmental Science Earth • Air • Space • Exoplanet Terrestrial Environments, Planetary Atmospheric Modeling, Radiation Shielding



Design and Integration Tools Vehicle/Payload Modeling and Analysis, Component and Integrated

System Simulation



Crew and Life Support Biological Sensors, Food, Medical, Biological Analysis, Crew Support, Basic **Human Model and Cognition**



Autonomous Systems Robotics, Automated Systems, Systems Health Monitoring



Vehicle Management Space . Air . Ground Flight Software, Spacecraft Processes, Command and Data Handling, Instrument Management



Data and Image Processing Algorithms, Data Analysis, **Data Processing**



Aeronautics

Air Traffic Management Tools, **Modeling and Simulation Tools**



















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